Translation

PATENT COOPERATION TREATY





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant	t's or agent's file reference							
"	PCT-1-151217	FOR FURTHER ACTI	ON See Noti	fication of Transmittal of International				
Internatio	nal application No.			y Examination Report (Form PCT/IPEA/416)				
PCT/JP2003/016423		International filing date (a		Priority date (day/month/year)				
		19 December 2003	(19.12.2003)	25 December 2002 (25.12.2002)				
F	nal Patent Classification (IPC) or na 28F 1/30	ational classification and IP	С					
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Applicant		TOVO PADIATOR	00 100					
		TOYO RADIATOR	CO., LTD.					
1 70								
an	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
~· 11	2. This REPORT consists of a total of sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing provide the same of the description.							
	amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total							
			ά.					
3. This report contains indications relating to the following items:								
	I Basis of the report							
	II Priority							
	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
:	IV Lack of unity of invention							
	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;							
,	VI Certain documents cite		•••					
v	II Certain defects in the in	nternational application						
VIII Certain observations on the international application								
—— ———————————————————————————————————								
			•					
Date of subr	nission of the demand							
			f completion of	this report				
19 December 2003 (19.12.2003)			14 J	uly 2004 (14.07.2004)				
Vame and m	ailing address of the IPEA/JP	A At-	rized officer					
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Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PRELIMITY EXAMINATION REPORT

Internation Loplication No.
PCP2003/016423

I. Basis	sis of the report	
	ith regard to the elements of the international application:*	
	the international application as originally filed	
	the description:	
l		, as originally filed
	70000	
	, III	ed with the letter of
	the claims:	
	pages	
1	pages	, as amended (together with any statement under Article 19
		, filed with the demand
	, fil	ed with the letter of
	the drawings:	
ļ	pages	, as originally filed
		filed with the demand
	pages, file	ed with the letter of
t	the sequence listing part of the description:	
	pages	, as originally filed
	pages	d with the letter of, filed with the demand
These	In regard to the language, all the elements marked above were available international application was filed, unless otherwise indicated under the see elements were available or furnished to this Authority in the following the language of a translation furnished for the purposes of international application (under the language of publication of the international application (under the language of the translation furnished for the purposes of internation 55.3). In regard to any nucleotide and/or amino acid sequence discinguage examination was carried out on the basis of the sequence listing contained in the international application in written form. Filed together with the international application in computer readable furnished subsequently to this Authority in written form. Furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequent international application as filed has been furnished. The statement that the information recorded in computer readable been furnished.	which is: ional search (under Rule 23.1(b)). Rule 48.3(b)). crnational preliminary examination (under Rule 55.2 and/ osed in the international application, the international ng: le form. ce listing does not go beyond the disclosure in the
Replace in this and 70.	The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/fig This report has been established as if (some of) the amendments has beyond the disclosure as filed, as indicated in the Supplemental Box cement sheets which have been furnished to the receiving Office in respect to this report of the containing such amendments must be referred to unapplement sheet containing such amendments must be referred to unapplement sheet containing such amendments must be referred to unapplement sheet containing such amendments must be referred to unapplement sheet containing such amendments must be referred to unapplement sheet containing such amendments must be referred to unapplement.	esponse to an invitation under Article 14 are referred to t since they do not contain amendments (Rule 70.16
	placement sheet containing such amendments must be referred to un	der item I and annexed to this report,

atement			
Novelty (N)	Claims	1-5	YE
	Claims		NO
Inventive step (IS)	Claims		YE
	Claims	1-5	NO
Industrial applicability (IA)	Claims .	1-5	YES
	Claims		NO

2. Citations and explanations

Document 1: JP, 5-272887, A (TOYO RADIATOR CO., LTD.), 22 October 1993 (22.10.93)

Document 2: JP, 5-60482, A (SHOWA ALUMINUM CORP.), 09 March 1993 (09.03.93)

Document 3: EP, 271319, A (PEERLESS OF AMERICA, INC.), 15 June 1988 (15.06.88)

1. The subject matter of claims 1-5 does not involve an inventive step on account of document 1 through document 3.

Document 1 describes an invention that installs a tube 3 in a recess 8 formed in a core gate fin. Document 2 describes an invention that fits a tube 3 into a fitting recess 8 formed in a plate fin 3.

Document 3 describes forming a hole 42 in an element sheet 43, forming a fold 45 adjacent to the hole, and disposing adjacent holes in an irregular chain.

Employing the inventions taught by document 2 and document 3 in the device described in document 1 would be easy for a person skilled in the art.